

ABSTRACT OF THE DISCLOSURE

Conventionally, when the coordinates detection characteristic of a coordinates input apparatus was nonlinear correction of the input coordinates could not  
5 always be accurately performed.

The present invention is a coordinates correction apparatus and a coordinates correction method including a parameter keeping means for keeping quadratic nonlinear conversion constants as coordinates  
10 correction parameters and a memory medium storing a coordinates correction control program for receiving coordinates of locations optionally indicated on a coordinates input area and correcting the coordinates received in the coordinates reception step by quadratic  
15 nonlinear conversion using the coordinates correction parameters kept by the parameter keeping means.

Preferably, it further comprises a parameter calculation step for calculating coordinate correction parameters for nonlinear conversion and causing the  
20 coordinates correction parameters to be kept by the parameter keeping means.

Further, the present invention is a coordinates correction parameter calculation apparatus and a coordinates correction parameter calculation method for  
25 calculating coordinates correction parameters for correction of the coordinates of locations optionally indicated on the coordinates input area of a

coordinates input apparatus by nonlinear conversion and  
a memory medium storing a coordinates correction  
parameter calculation program for receiving the  
coordinates of indicated locations corresponding to  
5 multiple reference points with differing locations  
established on a coordinates input area from the  
coordinates input apparatus and calculating the  
nonlinear equation coordinates correction parameters  
for coordinates correction by solving simultaneous  
10 equations by applying the received coordinates to the  
nonlinear equations for coordinates correction.

Given the embodiment of the present invention,  
four coordinates are stored by a first through a fourth  
coordinates keeping means via a switching means when  
15 four coordinates are input indicating four reference  
points established on the coordinates input area when  
coordinates correction parameters are not kept in the  
parameter keeping means. The parameter calculation  
means calculates the coordinates correction parameters  
20 for nonlinear conversion by solving simultaneous  
equations based on these four coordinates and causes  
the parameter keeping means to keep them. When  
coordinates are input from the coordinates input part  
when parameters are kept by the parameter keeping means  
25 the switching means causes correction of the input  
coordinates by the input coordinates correction means.  
The input coordinates correction means corrects the

input coordinates accurately by nonlinear conversion using the parameters kept in the parameter keeping means and outputs the corrected coordinates to a coordinates output means.